

REPLACEMENT SHEET

Figure 3B (cont'd I)

REPLACEMENT SHEET

1121 TCGACGGCGAGTGGACTTACGACGCCACCAAGACCTCACCGTGACCGAGGGCG
 147P aI AspGI yGI uTr pThr TyrAspAspAl aThr LysThr PheThr Val Thr GI uAl a
 NotI

1177 CCCGCAGAACAAAAACTCATCTCAGAAAGGGATCTGAATGGGCCGTCGACGAACA
 166P Al aAl aGI uGI nLysLeuI leSer GI uGI uAspLeuAsnGI yAl aVal AspGI uGI
 myc

1233 AAAACTCATCTCAGAAAGAGGATCTGAATGCTGTGGGCCAGGACACGCAGGAGGTCA
 184P nLysLeuI leSer GI uGI uAspLeuAsnAl aVal GI yGI nAspThr GI nGI uVal I

1289 TCGTGGTGCACACTCTGCCCTTAAGGTGGTGTATCTAGCCATCTGGCC
 203P I eVal Val ProHisSerLeuProPheLysVal Val Val I leSerAl aI I eLeuAl a

TM domain

1345 CTGGTGGTGCACCATCATCTCCCTTATCATCCTCATCATGCTTGGCAGAAGAA
 222P LeuVal Val LeuThr I leI leSerLeuI leI leMetLeuTr pGI nLysLy

PvuI XbaI

1401 GCCACGTTCTCGGCCGATCGAGAATCCATCTAGAGCTATTCTATAGTGTACCTA -
 240P sProArgSerSerAl aAspArgGI uSer I I I I ←

SacI

1457 AATGCTAGAGCTCGCTGATCAGCCTCGACTGTGCCTCTAGTTGCCAGCCATCTGT ← poly A

1513 TGTTTGCCTCTCCCCGTGCCTTCTTGACCTGGAAGGTGCCACTCCACTGTCC

1569 TTCTTAATAAAATGAGGAATTGCATCGATTGTCTGAGTAGGTGTCAATTCTATT

BbsI

1625 CTGGGGGGTGGGTGGGCAGGAACAGCAAGGGGAGGATTGGGAAGACAATAGCAG

1681 GCATGCTGGGATGCCGTGGCTATGGCTCTGAGGCGGAAAGAACCAAGTGGCG

AfIII

1737 GTAATACGGTTATCCACAGAAATCAGGGATAACGCAGGAAAGAACATGTGAGCAA
 1793 AGGCCAGAAAAGGCCAGGAACCGTAAAAGGCCGTTGCTGGCGTTTCCATA

1849 GGCTCCGCCCCCTGACGAGCATCACAAAATCGACGCTCAAGTCAGAGGTGGCGA

1905 AACCCGACAGGACTATAAGATAACCAGGCCTTCCCCCTGGAAGCTCCCTCGTGC

1961 CTCTCTGTCCGACCCCTGCCGTTACCGATACTGTCCGCCCTCTCCCTCG

2017 GAAGCGTGGCGCTTCTCATAGCTACGCTGTAGGTATCTCAGTTGGTGTAGGTC

Apal Col E1

2073 GTTCGTCCAAGCTGGCTGTGTGCACGAACCCCCGTTCAAGCCCACCGCTGCC

2129 CTTATCCGTAACTATCGTCTTGAGTCCAACCGGTAAGACACGACTATGCCAC

AIwNI

2185 TGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCAGGTATGTAGGCAGTACA

2241 GAGTTCTTGAAGTGGTGGCTTAACCTACGGCTACACTAGAAGGACAGTATTTGGTAT

2297 CTGCCTCTGCTGAAGCCAGTTACCTTGGAAAAAGAGTTGGTAGCTTTGATCCG

2353 GCAAACAAACCACCGCTGGTAGCGGTGGTTTTGTTGCAAGCAGCAGATTACG

2409 CGCAGAAAAAAAGGATCTCAAGAAGATCTTGTATCTTCTACGGGTCTGACGC

Figure 3B (cont'd II)

REPLACEMENT SHEET

2465 TCAGTGGAACGAAACTCACGTTAAGGGATTTGGTCATGAGATTATCAAAAGGA
 2521 TCTTCACCTAGATCTTTAAATTAAAATGAAGTTAAATCAATCTAAAGTATA BspHI
 EcoO109I
 Bsu36I AIwNI
 2577 TATGAGTAACCTGAGGCTATGGCAGGGCTGCCGCCCCGACGTTGGCTGCAGGCC
 2633 TGGGCCTTCACCGAACCTGGGGGTGGGGTGGGAAAAGGAAGAAACGGCGGGCGT
 2689 ATTGGCCCCAATGGGTCTCGGTGGGTATCGACAGAGTGCAGCCCTGGGACCGA TK poly A
 2745 ACCCCGGCTTATGAACAAACGACCCAACACCGTGCCTTATTCTGTCCTTTAT AvrII
 2801 TGCGTCAAGCGGGTCCCTCCGGTATTGTCCTCCGTGTTAGTTAGCC
 2857 TCCCCCTAGGGTGGCGAAGAACTCCAGCATGAGATCCCCGGCTGGAGGATCATC BstBI
 2913 CAGCGGGCGTCCCAGAAAACGATTCCGAAGCCAACCTTCATAGAAGGCGGGCGT SphI
 2969 GGAATCGAAATCTCGTGTGGCAGGTTGGCGCTCGTTGGTCGGTCATTCGAAC
 3025 CCAGAGTCCCCTCAGAAGAACTCGTCAAGAAGGCATAGAAGGCATGGCGTGCCTGC
 2634 •••PhePheGluAspLeuLeuArgTyrPheAlaAlaLeArgGlynSe
 3081 AATCGGGAGCGGGCGATACCGTAAAGCACGAGGAAGCGGTAGCCCATTGCCGCCA
 2484 TrAspPr oAlaAlaAlaLeGlyTyrLeuValLeuPheArgAspAlaTr pGI uGI yGI yL
 SapI RsrII
 3137 AGCTCTTCAGCAATATCACGGTAGCCAACGCTATGTCCTGATAGCGGTCCGCCAC
 2294 LeuGlyAlaAlaAlaAspArgThrAlaLeuAlaAlaAspGlynTyrArgAspAlaVal
 3193 ACCCAGCCGGCACAGTCGATGAATCCAGAAAAGCGGCCATTCCACCATGATAT
 2114 GlyLeuArgGlyCysAspIlePheGlySerPheArgGlyAsnGlyuValIMetAlaAs
 3249 TCGGCAAGCAGGATCGCCATGGGTACAGCAGAGATCTCGGCCGTCGGCATGCTC
 1924 nProLeuCysAlaAspGlyHisThrValValLeuAspGlyAspPr oMetSerA
 3305 GCCTTGAGCTGGCAAACAGTCGGCTGGCGGAGGCCCTGATGCTCTTGATCATC
 1734 IaLysLeuArgAlaPheLeuGlyAlaPr oAlaLeuGlyGlynHI sGlyuGlyAspPr oMetSerA
 3361 CTGATCGACAAGACCAGCTTCATCCGAGTACGTGCTCGCTCGATGCGATGTTCG
 1554 GlynAspValILeuGlyAlaGlyMetArgThrArgAlaArgGlyuAlaArgGlyHI sLysAl
 3417 CTTGGTGGTCGAATGGGCAGGTAGCCGGATCAAGCGTATGCGAGCCGCCATTGCA
 1364 aGlynHisAspPhePr oCysThrAlaProAspLeuThrHI sLeuArgGlyMetAlaAs
 3473 TCAGGCATGATGGATACTTCTCGCAGGAGCAAGGTGAGATGACAGGGAGATCTG
 1174 spAlaMetAlaSerValLysGlyAlaProAlaLeuHI sSerSerLeuLeuAspGlyn Thh111
 3529 CCCGGCACTTCGCCAACATAGCAGCCAGTCCCTCCGCTTCAGTGACAAACGTCGA
 994 GlyPr oValGlyLeuLeuLeuTrpAspArgGlyAlaGlyuThrValValAspLe Neo-R.
 Pvull FspI MscI
 3585 GCACAGCTGCGCAAGGAACGCCGTCGGCCAGCCACGATAGCGCGCTGCCTCG
 804 uValAlaAlaCysPr oValGlyThrThrAlaLeuTrpSerLeuArgAlaAlaGlyuwa Nari
 3641 TCTTCAGTTCAATTAGGGCACCGGACAGGTGGCTTCAGACAAAAAGAACCGGGCG
 614 spGlyLeuGlyAsnLeuAlaGlySerLeuAspThrLysValPheLeuValProArg
 3697 CCCCTGCCTGACAGCCGGAACACGGCGCATCAGAGCAGCCGATGTCCTGTTGTC
 434 GlyGlyAlaAlaSerLeuArgPheValAlaAlaAspSerCysGlyIleThrGlynHI sAla
 3753 CCCAGTCATGCCAACAGCCTCTCCACCAAGCGGGGGAGAACCTGCGTGCAT
 244 aTrpAspTyrGlyPheLeuArgGlyValTrpAlaAlaProSerGlyAlaHi sLeug BsaBII
 3809 CCATCTTGTTCATGCGAAACGATCCTCATCCTGTCCTTGATGATCTTGC
 541 yAspGlyGlyuGlyuMet BsaRI
 StuI
 AvrII BseRI
 3865 AAAAGCCTAGGCCTCCAAAAAGCCTCTCACTACTCTGGAATAGCTCAGAGGCC

Figure 3B (cont'd III)

REPLACEMENT SHEET

BseRI
3921 GAGGAGGGCGGCCCTGGCCCTGCATAAATAAAAAAAATTAGTCAGCCATGGGGCGG

SV40 ori & Promotor
3977 AGAATGGGCGGAACCTGGCGGAGTTAGGGCGGGATGGCGGAGTTAGGGCGGG

NsiI
4033 CTATGGTTGCTGACTAATTGAGATGCATGCTTGCATACTTCTGCCTGCTGGGGAG

SacAI
4089 CCTGGGACTTCCACACCTGGTGTGACTAATTGAGATGCATGCTTGCATACT

PvuI
4145 TCTGCCTGCTGGGAGCCTGGGACTTTCCACACCTAAC TGACACACACATTCCACA

Bsu36I
4201 GCTGGTTCTTCCGCCTCAGGACTCTTCTTTCAATAAAICAATCTAAAGTATA
4257 TATGAGTAAACTTGCTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTC
2874 ---Tr pHI sLysI IeLeuSerAlaGlyI IeGlu
Eam1105I

4313 AGCGATCTGCTATTCGTTCATCCATAGTTGCCGACTCCCCGTCGTGTAGATAA
2764Al aI IeGlnAr gAsnAr gGluAspMetThrAlaGlnSerGlyThrThrTyrI IeVal
4369 CTACGATACGGGAGGGCTTACCATCTGCCCGAGTGCTGCAATGATAACCGCGAGAC
2574I Val I IeAr gSer ProLysGlyAspProGlyLeuAlaAl aI I IeGlyArgSerG
4425 CCACGCTACCGGCTCCAGATTATCAGCAATAAACCCAGCCAGCCGGAAAGGGCGA
2384I yArgGlyIaGlySerAlaGlyIePhoTrpIyAlaProLeuAlaSer
4481 GCGCAGAAGTGGTCTGCAACTTTATCCGCCTCCAGCTATTAAATTGTTGCC
2204ArgIeLeuProGlyAlaValLysAspAlaGluMetTrpAspI IeLeuGlyI nAr

FspI Psp1406I
4537 GGGAAGCTAGAGTAAGTAGTTGCCAGTTAATAGTTGCCAACGTTGTCATT
2014gSerAlaLeuThrLeuLeuGlyI yThrLeuLeuLysArgLeuThrThrAlaMetA
4593 GCTCACAGGCATCGTGGTGTACCGCTCGCTGGTATGGCTTCATTAGCTCCGG
1824I aValProMetThrThrAspArgI yGlyI AspAsnProI IeAl aGlyI AsnLeuGlyI uPro
4649 TTCCCAACGATCAAGGCGAGTTACATGATGCCCTTACAGTGTGCAAAAAAGCGGTTA
1644GlyI TrpArgAspLeuArgThrValHI sAspGlyMetAsnHI sLeuPheAlaThrLe

PvuI
4705 GCTCCTTCGGTCTCCGATCGTTGTCAGAAGTAAGTTGCCAGTGTATCACTC
1454uGlyI LysProGlyI yGlyI IeThrThrLeuLeuLeuAsnAlaAl aThrAsnAspSerM

bla
4761 ATGGTTATGGCAGCACTGCATAATTCTTACTGTCATGCCATCCGTAAGATGCTT
1264etThrI IeAl aSerCystLeuGlyArgValThrMetGlyAspThrLeuHI sLys

Scal
4817 TTCTGTGACTGGTAGACTCAACCAAGTCATTCTGAGAATAGTGATGCCGAC
1084GlyI ThrValProSerTyrGlyI uValLeuAspAsnGlyI nSerTyrHisI IeAr gArgGly
4873 CGAGTTGCTCTGCCCGCGTCATAACGGGATAATACCGCCACATAGCAGA
894yLeuGlyI nGlyI aGlyAlaAspI IeArgSerLeuValAlaGlyCysLeuLeuValI

Psp1406I
4929 TTAAAAGTGTCTCATATTGGAAAACGTTCTCGGGCGAAAAACTCTCAAGGATCTT
704ysPheThrSerMetProPheArgGlyI uGlyI uProArgPheSerGlyI uLeuI I eLys

ApalI
4985 ACCGCTGTTGAGATCCAGTCGATGTAACCCACTCGTCACCCAACTGATCTTCAG
524GlySerAsnLeuAspLeuGlyI I IeTyrGlyI yValArgAlaGlyI LeuGlyI AspGlyI uAl
5041 CATCTTTACTTCACCGCGTTCTGGGTGAGCAAAACAGGAAGGCAAATGCC
334aAspLysValLysValLeuThrGlyI ProHI sAlaPheValI ProLeuCysPheAlaA
5097 GCAAAAGGGAAATAAGGGCACACGGAAATGTTGAATACTCTACTCTCTT
144I aPhePheProI IeLeuAlaValArgPheHI sGlyI nIleSerMet

SspI
5153 TCAATATTATTGAAGCATTTCAGGGTTATTGTCATGAGCGGATACATATTG

BspHI
S209 AATGTATTAGAAAATAAAACATAGGGGTTCCCGCGCACATTCCCCAAAAGTG

S265 CCACCTGACGCCCTGTAGCGCGCATTAAGCGCGGGGTGTGCTGTTACCGC

Figure 3B (cont'd IV)

REPLACEMENT SHEET

Stem loop A

5321 CAGCGT GACCGCTACACTGCCAGCGCCCTAGCGCCCCTCCTTCGCTTCTTCC

5377 CTTCTTTCTGCCACGTTGCCGGCTTCCCCGTCAAGCTCTAAATGGGGGCTC

f1 IR Stem loop B

5433 CCTTTAGGGTTCCGATTAGTGCTTACGGCACCTCGACCCCAAAAAACTTGATTA

DraIII Stem loop C Primer-RNA

5489 GGGTGATGGTTACGTAGTGGCCATGCCCTGATAGACGGTTTGCCTTGA

Start Transcription VS-Synthese Nicking site Stem loop D Stem loop E

5545 CGTTGGAGTCCACGTTCTTAATAGTGACTCTTGTCCAAACTGGAACAACACTC

5601 AACCCATCTCGGTCTATTCTTTGATTATAAGGGATTTGCCGATTTCGGCTA

5657 TTGGTTAAAAATGAGCTGATTAACAAAAATTAAACGCGAATTAAACAAAATAT

5713 TAACGCTTACAATTAC

Figure 3B (cont'd V)